

HUM-Bug DETECTOR[®] KIT

Instructions

1. Draw a sample from fuel tank bottom into a clean container.
2. Carefully peel off center seal of metal cap on test bottle. **DO NOT TOUCH RUBBER CAP.**
3. Take syringe from its wrapping, leaving needle guard in place until ready to use.
4. Insert needle into fuel sample and draw plunger back filling syringe with more than one c.c. of sample. Invert syringe and with needle point up, push in plunger to exactly one c.c. mark, expelling any air bubbles.
5. Carefully insert needle into rubber cap of test bottle and push in the plunger to inject fuel sample.
6. Remove syringe from bottle, replacing needle guard and discard according to local, state and federal guidelines.
7. Shake bottle vigorously and place in dark at room temperature to incubate.
8. If fuel sample being tested is contaminated with living microorganisms, the fluid in the bottom phase of the bottle will turn pink or red within 24 to 48 hours. However, observations should continue for a week, depending on the degree of contamination. (Note: In some instances there may be a slightly higher than normal sulfur level in the fuel sample that is injected. In this case the elevated sulfur level will have a tendency to draw a small amount of the dye into the top phase giving it a slight pink tinge. This slight pinkish tinge should not be mistaken for microbial contamination.)

Mfg. by

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Testing for Microorganisms

Although there are over 250 types of bacteria and fungi that can exist in fuels and oils, there are only a few dozen that are HUM Bugs. HUM Bugs are Hydrocarbon Utilizing Microorganisms which live in the interface between fuel or fuel oils and water bottoms, they reside in the water, feeding on the fuel or oil. Of the hundreds of varieties of bacteria and fungi, the HUM Bugs are the only harmful ones to your fuel, and the equipment which used that fuel. They not only are harmful because they plug filters and lines, but their waste by-products have an acid content. This can aid in the corrosion of fuel tanks, distortion of rubber hoses and seals, increased wear on equipment fuel pumps and finally, added deposits on engine fuel injectors. Since even the smallest contamination can cause these severe problems, any level, no matter how small, should be treated.

The HUM-Bug Detector® Kit has been specifically designed to detect only those microorganisms which are harmful to your tanks. The detection results are either positive or negative for the existence of these bugs, which tells the user if he needs to treat the fuel with a biocide or not. Early detection of an infestation and treatment will limit the size of the growth problem. BIOBOR® JF is the industry recommended biocide to use.